

IN THE CLAIMS:

Claims 1-9 (canceled).

Claim 10 (previously presented): A carbonator, comprising:

    a housing;

    a film generator assembly disposed in the housing, the film generator assembly including a hemispherical redirector coupled to a cylindrical film generator, wherein the hemispherical redirector includes an inner surface, and further wherein, the cylindrical film generator includes apertures to aid ~~the~~ a liquid in taking the shape of a film;

    a gas inlet port disposed on the housing, the gas inlet port coupled with a gas source for communicating gas into the housing;

    a liquid inlet port disposed on the housing, the liquid inlet port coupled with a liquid source for communicating liquid onto the inner surface of the hemispherical redirector, wherein the liquid fluid contacts the inner surface and is redirected onto the cylindrical film generator, thereby forcing the liquid to film as the liquid moves down the cylindrical film generator, thereby maximizing the liquid/gas interaction area; and

    an outlet port disposed on the housing for delivery of a liquid/gas mixture exterior to the housing.

Claim 11 (original): The carbonator according to claim 10, wherein the gas is carbon dioxide.

Claim 12 (original): The carbonator according to claim 10, wherein the liquid is water.

Claim 13 (original): The carbonator according to claim 10, wherein the mixture exiting the carbonator is carbonated water.

Claims 14-17 (canceled).

Claim 18 (previously presented): A method of increasing the surface area of a liquid for mixing with a gas, comprising:

- a. placing a film generator assembly in a chamber filled with a pressurized gas, wherein the film generator assembly comprises a hemispherical redirector coupled with a cylindrical film generator including apertures;
- b. spraying the liquid onto an inner surface of a hemispherical redirector;
- c. redirecting the sprayed liquid fluid towards the cylindrical film generator;
- d. generating a film as the liquid moves over the cylindrical film generator; and
- e. passing the film over the apertures to aid film generation.

Claim 19 (previously presented): The method according to claim 18, further comprising:

- f. absorbing the higher pressure gas into an increased exposed surface area of the liquid.

Claims 20-40 (canceled).